□ (+1) 404-429-2362 | Signated | Alanwap | Alanwap | Indian Alanwap |

Education_____

Georgia Institute of Technology (Georgia Tech)

Atlanta, Georgia, US

Aug 2017 - Dec 2021

MS IN COMPUTER SCIENCE

• Institute for Information Security & Privacity, College of Computing

• G.P.A. 3.84/4.0

Shanghai Jiao Tong University (SJTU)

BSE IN COMPUTER SCIENCE

Sept 2013 - July 2017

· ACM Honored Program, Zhiyuan College

• G.P.A. 3.77/4.3

Work Experience _____

RESEARCH SCIENTIST & ARCHITECT

Mountain View, California, US

(Remote in Atlanta, GA, US)

JD.com Silicon Valley R&D Center

Feb 2022 -

· Developing secure neural network system with multi-party computation (MPC) frameworks (ABY, Falcon, etc.)

· Exploring scenarios of fully homomorphic encryption in private computing services, e.g. generating multiplication triples

JD.com Silicon Valley R&D Center

Mountain View, California, US (Remote in Atlanta, GA, US)

RESEARCH INTERN May 2021 - Aug 2021

• Implemented a protocol to generate distributed RSA secret key pair securely between two servers using oblivious transfer

Research Experience_

Institute for Information Security & Privacity, Georgia Tech

Atlanta, Georgia, US

GRADUATE RESEARCH ASSISTANT

Aug 2017 - Dec 2021

Aug 2016 - Dec 2016

- Advisor: Prof. Alexendra Boldyreva & Prof. Vlad Kolesnikov
- · Designed secure review protocols supporting instant authorization and user anonymity
- · Optimized a zero knowledge proof scheme using MPC-in-the-head to satisfy efficient boolean and arithmetic operations

Security & Privacy group, Cornell Tech

New York City, New York, US

RESEARCH INTERN

- Advisor: Prof. Tom Ristenpart
- Explored side-channel attacks in full text search systems
- Analyzed the security of symmetric encryption schemes as cryptographic commitments

Cornell University Ithaca, New York, US

EXCHANGE STUDENT

Jul. 2012 - Jun. 2013

- · Advisor: Prof. John E. Hopcroft
- Explored the role of units in different convolutional layers of a deep learning network

Lab of Cryptology and Computer Security, SJTU

Jun 2015 - Jun 2016

Undergrad Research Assistant

· Advisor: Prof Yu Yu

• Explored problems related to Learning Parity with Noise and Fully-Homomorphic Encryption

Publication

Efficient Generic Arithmetic for KKW - Practical Linear MPC-in-the-Head NIZK on **Commodity Hardware without Trusted Setup**

INTERNATIONAL SYMPOSIUM ON CYBER SECURITY CRYPTOLOGY AND MACHINE LEARNING - CSCML 2021

- Authors: David Heath, Vladimir Kolesnikov, Jiahui Lu
- Conference Talk

JIAHUI LU

Message Franking via Committing Authenticated Encryption

ADVANCES IN CRYPTOLOGY - CRYPTO 2017

· Authors: Paul Grubbs, Jiahui Lu, and Thomas Ristenpart

Side-Channel Attacks on Shared Search Indexes

IEEE SYMPOSIUM ON SECURITY AND PRIVACY - OAKLAND 2017

• Authors: Liang Wang, Paul Grubbs, Jiahui Lu, Vincent Bindschaedler, David Cash, Thomas Ristenpart

Anonymous Review Systems for (Un)linkable Settings

• Authors: Alexandra Boldyreva, Jiahui Lu

Honors & Awards __

Qualified to 3rd Round in the 2021 Google Code Jam

INDIVIDUAL

May 2021

4th place in the 2018 ACM-ICPC Southeast USA Regional Contest

Kennesaw, Georiga, US

TEAM BUSHIMEIGUOREN, GEORGIA TECH

Nov 2018

• 1st in Kennesaw State University site

9th place in the 2018 ITA Tech Challenge

INDIVIDUAL

Oct 2018

2nd place in the 2018 Mercer University Spring Programming competition

Macon, Georiga, US

TEAM YELLOW JACKETS, GEORGIA TECH

Feb 2018

• 1st in Division II

Extracurricular Activities

ACM programming team, Georgia Tech

Atlanta, Georgia, US

• Team meeting lecturer

Aug 2019 - Dec 2021

- College team representative in contests. Participated in
 - 2020 Mercer University Spring Programming competition
 - 2020 Southeast USA Regional Contest
 - 2021 ICPC North America Division Championships
 - 2021 ICPC North America Championships

2020 Mercer University Spring Programming competition

Macon, Georgia, US

STAFF & PROBLEM WRITER

Feb 2020

ISNDES Online

• Front-end developer of a fan-made forum www.isndes.com

Aug 2018 - Aug 2020

ACM programming team, Georgia Tech

Atlanta, Georgia, US

CONTESTANT

WEBSITE ADMIN

Aug 2017 - Aug 2019

JIAHUI LU